

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-59. (canceled)

60. (new) A system for determining a GNSS-defined position of a single point fixedly positioned on a slow-moving, mobile structure including a GNSS signal-blocking obstruction, which system comprises:

master and slave GNSS receivers;

master and slave antennas connected to said master and slave receivers respectively and mounted in fixed relation with known geometry and distances relative to each other and to said single point, said antennas being mounted on opposite sides of said mobile structure below said signal-blocking obstruction;

a common clock or synchronized clocks connected to said receivers for simultaneously processing GNSS signals received by said antennas;

an orientation device mounted on said structure for determining an orientation of said structure; and

computing means for determining the GNSS-defined position of said single point using:

(1) GNSS signals received by said master and slave receivers from said master and slave antennas respectively and input to said computing means, said signal-blocking obstruction blocking GNSS signals from certain satellites from said antennas whereby each antenna receives signals from no more than three satellites

and collectively said antennas receive GNSS signals from at least four satellites; (2) the known relative orientation and fixed distances and geometry of said master and slave antennas relative to each other and to said structure; (3) the known relative orientation and fixed distances and geometry of said single point relative to said master and slave antennas and to said structure; and (4) the orientation of said structure based on input from said orientation device.

61. (new) The system of claim 60 wherein said computing means uses a single differencing technique based on said known distance and geometry relation of said master and slave antennas for resolving a carrier phase GNSS signal integer ambiguity.

62. (new) The system of claim 60 wherein said structure comprises a marine vessel and said obstruction comprises a crane mounted on said vessel.

63. (new) The system of claim 60 wherein said structure comprises a terrestrial vehicle.

64. (new) A method of determining a GNSS-defined position of a single point fixedly positioned on a slow-moving, mobile structure including master and slave GNSS antennas and a GNSS signal-blocking obstruction preventing either antenna from receiving enough satellite signals to compute a position solution, which method comprises the steps of:

mounting said master and slave antennas in fixed relation with known geometry and distances relative to each other and to said single point on opposite sides of said mobile structure below said signal-blocking obstruction;

providing master and slave receivers and connecting said master and slave antennas to said master and slave receivers respectively;

providing a common clock or synchronized clocks and connecting said common clock or synchronized clocks to said master and slave receivers;

simultaneously processing GNSS signals received by said master and slave antennas by operation of said common clock or synchronized clocks;

providing an orientation device mounted on said structure;

determining an orientation of said structure with said orientation device and providing an output signal corresponding to said structure orientation;

computing the GNSS-defined position of said single point using: (1) GNSS signals received by said master and slave receivers from said master and slave antennas respectively and input to said computing means; (2) the known relative orientation and fixed distances and geometry of said master and slave antennas relative to each other and to said structure; (3) the known relative orientation and fixed distances and geometry of said single

point relative to said master and slave antennas and to said structure; and

(4) the orientation of said structure based on said orientation device output signal.

65. (new) The method of claim 64, which includes the additional step of:
using a single differencing technique based on said known distance and geometry relation
of said master and slave antennas for resolving a carrier phase GNSS signal integer
ambiguity.

66. (new) The method of claim 64 wherein said structure comprises a marine
vessel and said obstruction comprises a crane mounted on said vessel.

67. (new) The method of claim 64 wherein said structure comprises a
terrestrial vehicle.